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\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	APR 02	CAS Registry Number Crossover Limits Increased to 500,000 in Key STN Databases
NEWS	3	APR 02	PATDPAFULL: Application and priority number formats enhanced
NEWS	4	APR 02	DWPI: New display format ALLSTR available
NEWS	5	APR 02	New Thesaurus Added to Derwent Databases for Smooth Sailing through U.S. Patent Codes
NEWS	6	APR 02	EMBASE Adds Unique Records from MEDLINE, Expanding Coverage back to 1948
NEWS	7	APR 07	50,000 World Traditional Medicine (WTM) Patents Now Available in CAPLUS
NEWS	8	APR 07	MEDLINE Coverage Is Extended Back to 1947
NEWS	9	JUN 16	WPI First View (File WPIFV) will no longer be available after July 30, 2010
NEWS	10	JUN 18	DWPI: New coverage - French Granted Patents
NEWS	11	JUN 18	CAS and FIZ Karlsruhe announce plans for a new STN platform
NEWS	12	JUN 18	IPC codes have been added to the INSPEC backfile (1969-2009)
NEWS	13	JUN 21	Removal of Pre-IPC 8 data fields streamline displays in CA/CAPLUS, CASREACT, and MARPAT
NEWS	14	JUN 21	Access an additional 1.8 million records exclusively enhanced with 1.9 million CAS Registry Numbers -- EMBASE Classic on STN
NEWS	15	JUN 28	Introducing "CAS Chemistry Research Report": 40 Years of Biofuel Research Reveal China Now Atop U.S. in Patenting and Commercialization of Bioethanol
NEWS	16	JUN 29	Enhanced Batch Search Options in DGENE, USGENE, and PCTGEN
NEWS	17	JUL 19	Enhancement of citation information in INPADOC databases provides new, more efficient competitor analyses
NEWS	18	JUL 26	CAS coverage of global patent authorities has expanded to 61 with the addition of Costa Rica
NEWS	19	SEP 15	MEDLINE Cited References provide additional relevant records with no additional searching.
NEWS	20	OCT 04	Removal of Pre-IPC 8 data fields streamlines displays in USPATFULL, USPAT2, and USPATOLD.
NEWS	21	OCT 04	Precision of EMBASE searching enhanced with new chemical name field

10/578,352

11/24/2010

STN: SEARCH

NEWS 22 OCT 06 Increase your retrieval consistency with new formats or  
for Taiwanese application numbers in CA/CAPLUS.  
NEWS 23 OCT 21 CA/CAPLUS kind code changes for Chinese patents  
increase consistency, save time  
NEWS 24 OCT 22 New version of STN Viewer preserves custom  
highlighting of terms when patent documents are  
saved in .rtf format  
NEWS 25 OCT 28 INPADOCDB/INPAFAMDB: Enhancements to the US national  
patent classification.  
NEWS 26 NOV 03 New format for Korean patent application numbers in  
CA/CAPLUS increases consistency, saves time.  
NEWS 27 NOV 04 Selected STN databases scheduled for removal on  
December 31, 2010  
NEWS 28 NOV 18 PROUSDDR and SYNTHLINE Scheduled for Removal  
December 31, 2010 by Request of Prous Science  
NEWS 29 NOV 22 Higher System Limits Increase the Power of STN  
Substance-Based Searching  
NEWS 30 NOV 22 Enjoy a free month of INPADOCDB/INPAFAMDB SDIs!  
NEWS 31 NOV 24 Search an additional 46,850 records with MEDLINE  
backfile extension to 1946

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,  
AND CURRENT DISCOVER FILE IS DATED 07 JULY 2010.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:43:36 ON 24 NOV 2010

=> FILE REG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 08:44:24 ON 24 NOV 2010

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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 23 NOV 2010 HIGHEST RN 1254155-96-8  
DICTIONARY FILE UPDATES: 23 NOV 2010 HIGHEST RN 1254155-96-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

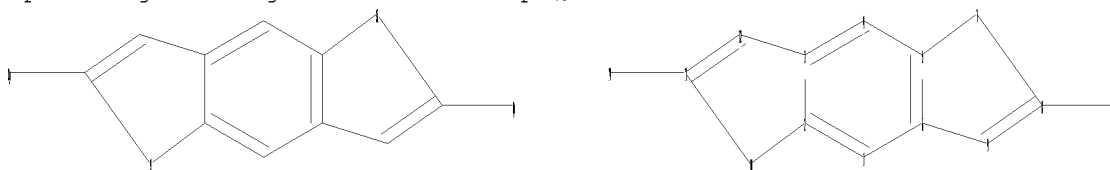
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\GL001.str



chain nodes :

13 14

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

8-13 11-14

ring bonds :

1-2 1-6 2-3 2-10 3-4 3-12 4-5 5-6 5-7 6-9 7-8 8-9 10-11 11-12

exact/norm bonds :

2-10 3-12 5-7 6-9 7-8 8-9 8-13 10-11 11-12 11-14

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

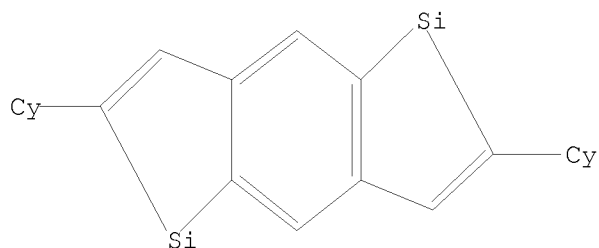
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1 FULL

FULL SEARCH INITIATED 08:45:24 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4743 TO ITERATE

100.0% PROCESSED 4743 ITERATIONS

10 ANSWERS

SEARCH TIME: 00.00.01

L2 10 SEA SSS FUL L1

=> FILE CAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

192.03

192.25

FILE 'CAPLUS' ENTERED AT 08:45:34 ON 24 NOV 2010

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FILE COVERS 1907 - 24 Nov 2010 VOL 153 ISS 22

FILE LAST UPDATED: 23 Nov 2010 (20101123/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2010

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2010

Caplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L2

L3 6 L2

=> D L3 IBIB ABS HITSTR 1-6

L3 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:615370 CAPLUS

DOCUMENT NUMBER: 150:551460

TITLE: Aryl-substituted siloles, their preparation, and threshold-reduced organic electroluminescent devices therewith

INVENTOR(S): Nakamura, Eiichi; Sato, Yoshiharu; Tsuji, Hayato; Ilies, Laurean

PATENT ASSIGNEE(S): Japan Science and Technology Agency, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 32pp.

CODEN: JKXXAF

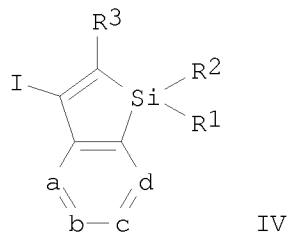
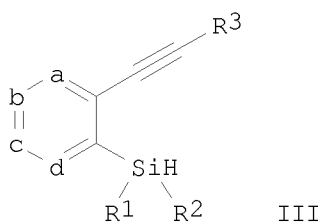
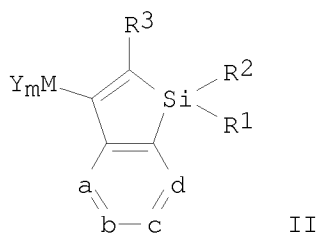
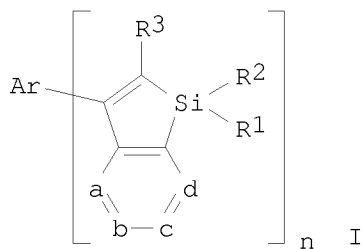
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2009108053	A	20090521	JP 2008-264653	20081010
PRIORITY APPLN. INFO.:			JP 2007-265948	A 20071011
OTHER SOURCE(S):	MARPAT	150:551460		
GI				



AB Silole compds. I [R<sub>1</sub>, R<sub>2</sub> = C1-6 aliphatic hydrocarbyl, alkoxy, aromatic

hydrocarbyl, etc.; R3 = C1-6 aliphatic hydrocarbyl, aromatic hydrocarbyl, aromatic heterocycle; a-d = C, N; Ar = n-valent aromatic (heterocyclic) hydrocarbon; n = 1-6] are prepared by reacting II [Ar = YmM; R1-R3 = the same as above; Y = alkyl(amino), aryl; m = (m0 - 1) (m0 = valence number of M)] with ArXn (Ar, n = the same as above; X = halo). The II is prepared by reacting acetylene derivative III (R1-R3, a-d = the same as above) with Group IVA anionic species. Further claimed is a process for preparing I by reacting IV (Ar = i; R1-R3, a-d = the same as above) with ArZn [Ar = the same as above; Z = ZnX, MgX, SnR3, SiR3 (X = halo; R = alkyl, alkylamino, aryl)]. Organic LED containing the silole compound I in organic layers (e.g., emitting layers) show fine stability of thin-film structure and long-term stability of superior high luminescent characteristics.

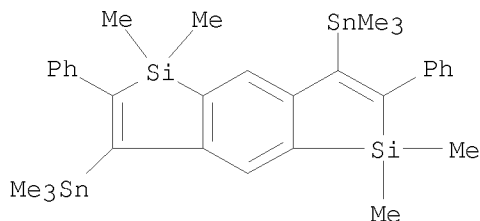
IT 1152130-94-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(high-efficiency organic LED containing aryl-substituted condensed silole compds. in electron-transporting layers)

RN 1152130-94-3 CAPLUS

CN 1,5-Disila-s-indacene, 1,1,5,5-tetramethyl-2,6-diphenyl-3,7-bis(trimethylstannyl)- (CA INDEX NAME)



L3 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1300654 CAPLUS

DOCUMENT NUMBER: 147:551330

TITLE: Organic field emission element containing polycyclic condensed ring compound as dopant in light-emitting layer

INVENTOR(S): Yamaguchi, Shigehiro; Yamada, Hiroshi; Uchida, Manabu

PATENT ASSIGNEE(S): Chisso Corp., Japan; Nagoya University

SOURCE: Jpn. Kokai Tokkyo Koho, 63pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

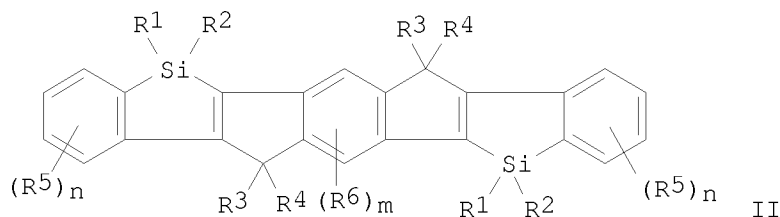
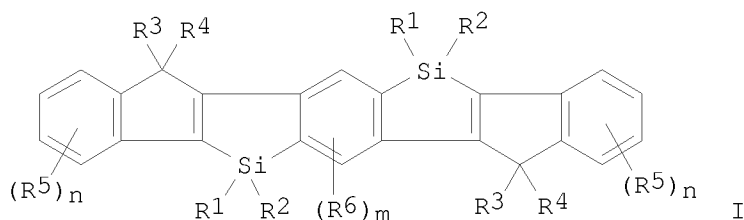
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007299980	A	20071115	JP 2006-127533	20060501
PRIORITY APPLN. INFO.:			JP 2006-127533	20060501
OTHER SOURCE(S):	MARPAT	147:551330		

GI



AB Disclosed is an organic field emission element comprising a light emitting layer between a pair of electrodes containing a host and a dopant, wherein the dopant is represented by I or II (R1-6 = H, alkyl, alkenyl, etc.; m = 0-2; and n = 0-4).

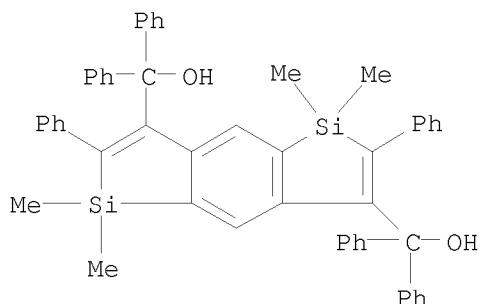
IT 848155-64-6P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(preparation of polycyclic condensed ring compound as dopant for organic field emission element)

RN 848155-64-6 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol,  
1,5-dihydro-1,1,5,5-tetramethyl- $\alpha,\alpha,\alpha',\alpha'$ ,2,6-hexaphenyl- (CA INDEX NAME)



L3 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1178328 CAPLUS

DOCUMENT NUMBER: 144:88342

TITLE: Synthesis, structures, and photophysical properties of silicon and carbon-bridged ladder oligo(p-phenylenevinylene)s and related  $\pi$ -electron systems

AUTHOR(S): Yamaguchi, Shigehiro; Xu, Caihong; Yamada, Hiroshi;  
Wakamiya, Atsushi  
CORPORATE SOURCE: Department of Chemistry, Graduate School of Science,  
Nagoya University, Furo, Chikusa, Nagoya, 464-8602,  
Japan  
SOURCE: Journal of Organometallic Chemistry (2005), 690(23),  
5365-5377  
CODEN: JORCAI; ISSN: 0022-328X  
PUBLISHER: Elsevier B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 144:88342

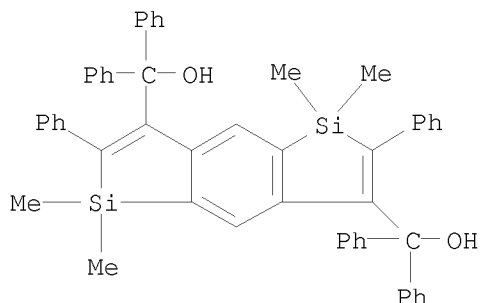
AB Partially or fully fused ladder oligo(p-phenylenevinylene)s (LOPVs) and related  $\pi$ -electron systems were synthesized. Thus, the intramol. reductive cyclization of o-silyl-substituted bis(phenylethynyl)benzenes with Li naphthalenide produces partially Si-bridged bis(styryl)benzenes consisting of silaindene or disilaindacene skeletons. By combining this cyclization with the Friedel-Crafts type electrophilic cyclization, a homologous series of the fully fused LOPVs and related compds., bearing Si and C bridges, was synthesized in fairly good yields. The longest example of the LOPVs is the 13-ring-fused system that has a nearly flat  $\pi$ -conjugated framework with a length of 2.9 nm, as proven by x-ray crystallog. All the produced ladder  $\pi$ -electron systems show intense fluorescence in the visible region with high quantum yields as well as relatively small Stokes shifts. As the Si contents increase or the disilaindacene skeleton is incorporated, the emission maxima shift to the longer wavelengths and the fluorescent quantum yields slightly decrease. These trends can be rationalized as due to the  $\sigma^*$  effect of Si, wherein the Si bridges contribute to the electronic structure through  $\sigma^*$ - $\pi^*$  orbital interaction that cause the red shifts in the emission maxima and suppress the radiative decay process from the singlet excited state.

IT 848155-64-6P 848155-71-5P 848155-76-0P  
872142-08-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation, structure, and photophys. properties of silicon- and carbon-bridged ladder oligo(p-phenylenevinylene)s and related  $\pi$ -electron systems)

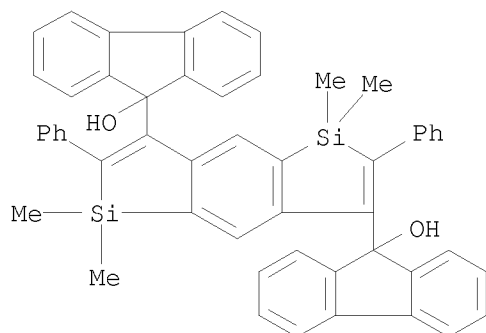
RN 848155-64-6 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol,  
1,5-dihydro-1,1,5,5-tetramethyl- $\alpha,\alpha,\alpha',\alpha',2,6$ -  
hexaphenyl- (CA INDEX NAME)

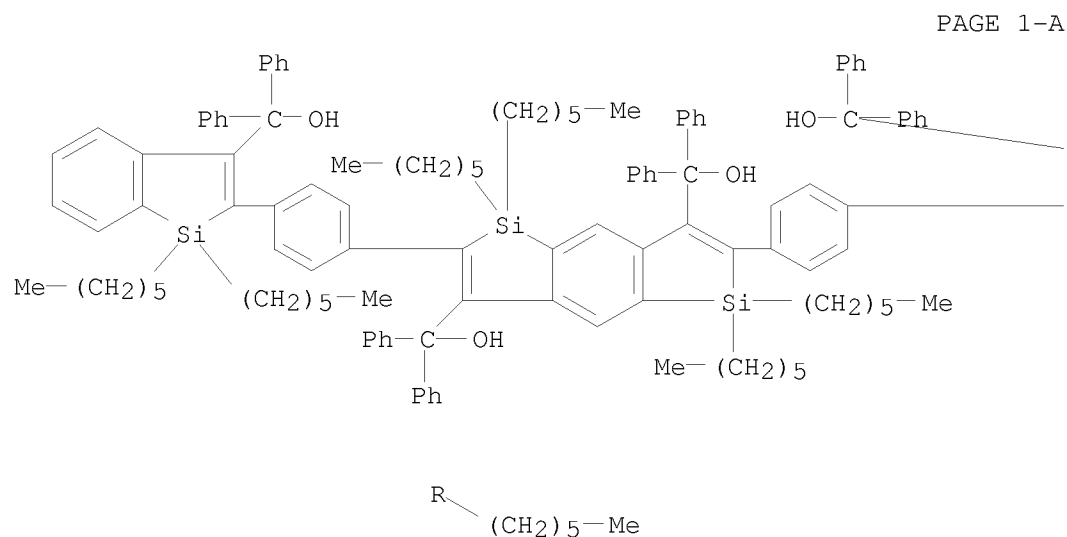


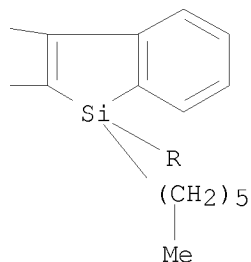
RN 848155-71-5 CAPLUS

CN 9H-Fluoren-9-ol, 9,9'-(1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-1,5-disila-s-indacene-3,7-diyl)bis- (9CI) (CA INDEX NAME)



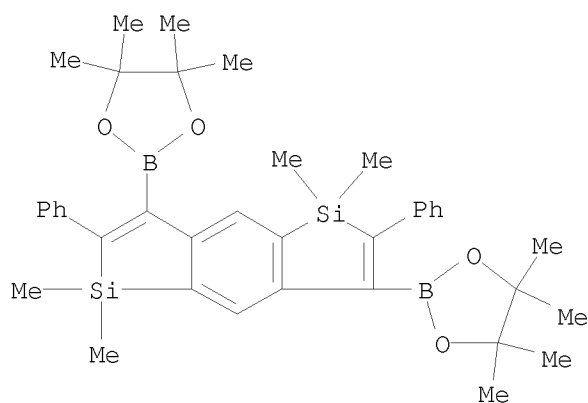
RN 848155-76-0 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol, 2,6-bis[4-[1,1-dihexyl-3-(hydroxydiphenylmethyl)-1H-1-silainden-2-yl]phenyl]-1,1,5,5-tetrahexyl-1,5-dihydro- $\alpha,\alpha,\alpha',\alpha'$ -tetraphenyl- (9CI) (CA INDEX NAME)



RN 872142-08-0 CAPLUS

CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (9CI) (CA INDEX NAME)

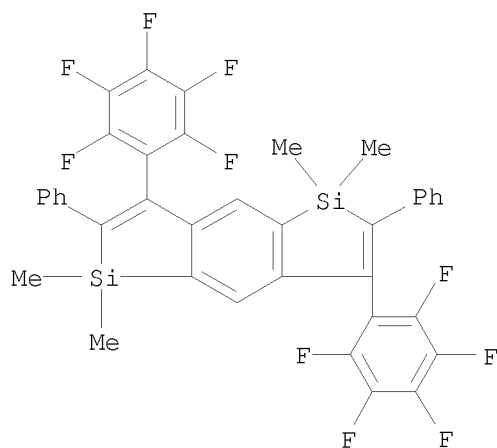


IT 794512-60-0P 872142-09-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation, structure, and photophys. properties of silicon- and carbon-bridged ladder oligo(p-phenylenevinylene)s and related  $\pi$ -electron systems)

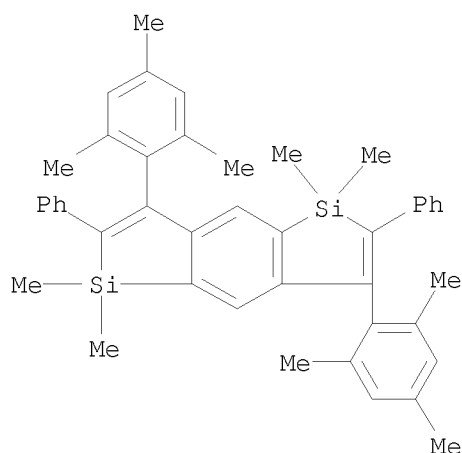
RN 794512-60-0 CAPLUS

CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-3,7-bis(pentafluorophenyl)-2,6-diphenyl- (9CI) (CA INDEX NAME)



RN 872142-09-1 CAPLUS

CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-3,7-bis(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



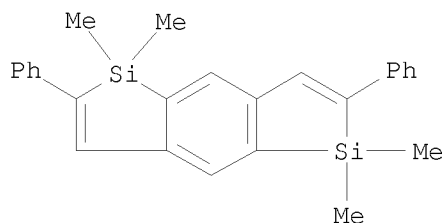
IT 794512-52-0P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(radiative and non-radiative decay rate consts. for; preparation, structure, and photophys. properties of silicon- and carbon-bridged ladder oligo(p-phenylenevinylene)s and related  $\pi$ -electron systems)

RN 794512-52-0 CAPLUS

CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 27 THERE ARE 27 CAPLUS RECORDS THAT CITE THIS RECORD (27 CITINGS)  
 REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:429419 CAPLUS

DOCUMENT NUMBER: 142:482144

TITLE: Preparation of silicon-containing polycyclic fused ring type  $\pi$ -conjugated organic materials, intermediate therefor, process for producing polycyclic fused ring type  $\pi$ -conjugated organic materials, and process for producing intermediate for polycyclic fused ring type  $\pi$ -conjugated organic materials

INVENTOR(S): Yamaguchi, Shigehiro; Xu, Caihong

PATENT ASSIGNEE(S): Japan Science and Technology Agency, Japan

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005044826	A1	20050519	WO 2004-JP16433	20041105
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005154410	A	20050616	JP 2004-224771	20040730
JP 4552023	B2	20100929		
CA 2544427	A1	20050519	CA 2004-2544427	20041105
EP 1700860	A1	20060913	EP 2004-818199	20041105
R: DE, FR, GB, NL				
CN 1875024	A	20061206	CN 2004-80031650	20041105
CN 100457761	C	20090204		
CN 101456876	A	20090617	CN 2008-10184528	20041105

KR 2006111560	A	20061027	KR 2006-7011173	20060607
KR 757636	B1	20070910		
US 20090143605	A1	20090604	US 2008-578352	20081229
PRIORITY APPLN. INFO.:			JP 2003-378923	A 20031107
			JP 2004-224771	A 20040730
			CN 2004-80031650	A3 20041105
			WO 2004-JP16433	W 20041105

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
OTHER SOURCE(S): MARPAT 142:482144  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Silicon-containing polycyclic fused ring type  $\pi$ -conjugated organic materials (I) [Ar1 = each (un)substituted arylene, oligoarylene or divalent heterocyclic or oligoheterocyclic group; R1, R2 = H, alkyl, alkoxy, alkylthio, aryl, aryloxy, arylthio, arylalkyl, aryloxy, arylalkylthio, arylalkenyl, arylalkynyl, allyl, arylsulfonyloxy, alkylsulfonyloxy, heterocyclyl, halo, each (un)substituted NH2, silyl, or silyloxy; R3 = H, alkyl, alkylthio, aryl, arylthio, arylalkyl, arylalkylthio, arylalkenyl, arylalkynyl, allyl, hydroxyalkyl, halomagnesium, halozinc, boric acid or its ester, boryl, heterocyclyl, halo, each (un)substituted hydroxymethyl, silyl, or stannyl; R4 = H, alkyl, alkoxy, alkylthio, aryl, aryloxy, arylthio, arylalkyl, arylalkoxy, arylalkylthio, arylalkenyl, arylalkynyl, allyl, allylsulfonyloxy, alkylsulfonyloxy, heterocyclyl, halo, substituted boryl, each (un)substituted NH2, silyl, or silyloxy; l = 0,1; n = 0-4] are prepared These compds., e.g. 1,4-bis(1,1-dimethyl-1H-1-silainden-2-yl)benzene derivs. (II) [E = H, Me, SiMe2H, 4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl (BPin)] are obtained by subjecting the starting material (III) to dimetalation with an organometallic base and trapping the resultant organometallic compound with an organosilicon reagent[(i) (1) n-BuLi or t-BuLi; (2) HMe2SiCl] to obtain the intermediate (IV), subsequently reacting the intermediate with a metallic reducing agent to cause an intramol. reductive cyclization reaction to proceed to thereby yield a dianion intermediate, and then trapping the dianion intermediate with an electrophilic agent [(ii) (1) lithium naphthalenide (LiNaph) in THF at room temperature for 5 min; (2) electrophile or NH4Cl]. The polycyclic fused ring type  $\pi$ -conjugated organic materials are excellent in luminescent properties and charge-transporting properties and useful as luminescent materials and charge-transporting materials with high luminescent efficiency and high charge-transporting efficiency, e.g. for electroluminescent devices (no data).

IT 848155-75-9P

RL: PRPH (Prophetic); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of  $\pi$ -conjugated silicon-containing polycyclic fused ring compds.

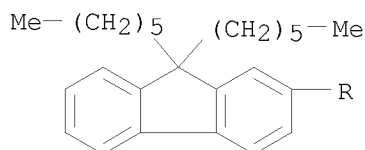
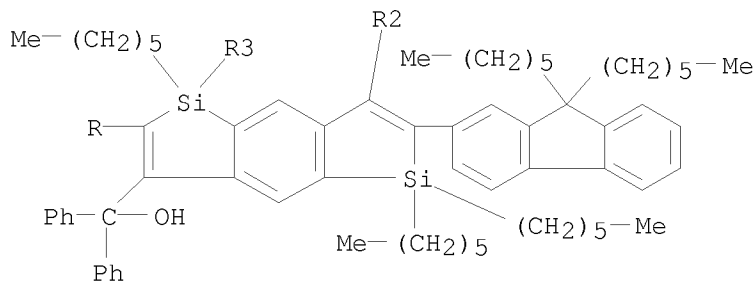
via intramol. reductive cyclization of  
1,4-bis(2-silylphenylethynyl)benzene or  
1,4-bis(phenylethynyl)-2,5-bis(silyl)benzene derivs.)

RN 848155-75-9 CAPLUS

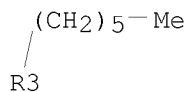
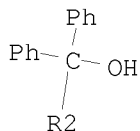
CN 1,5-Disila-s-indacene-3,7-dimethanol,  
2,6-bis(9,9-dihexyl-9H-fluoren-2-yl)-1,1,5,5-tetrahexyl-1,5-dihydro-

$\alpha, \alpha, \alpha', \alpha'$ -tetraphenyl- (9CI) (CA INDEX NAME)

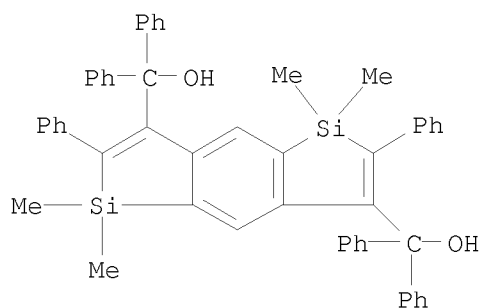
PAGE 1-A



PAGE 2-A

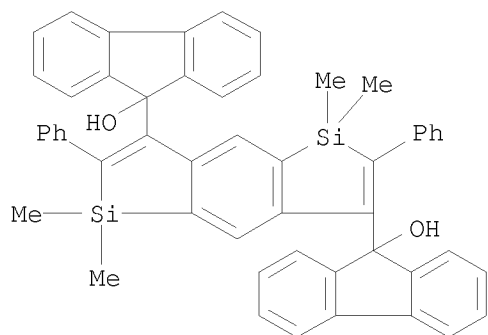


IT 848155-64-6P 848155-71-5P 848155-76-0P  
 852066-30-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation of  $\pi$ -conjugated silicon-containing polycyclic fused ring  
 compds.  
 via intramol. reductive cyclization of  
 1,4-bis(2-silylphenylethynyl)benzene or  
 1,4-bis(phenylethynyl)-2,5-bis(silyl)benzene derivs.)  
 RN 848155-64-6 CAPLUS  
 CN 1,5-Disila-s-indacene-3,7-dimethanol,  
 1,5-dihydro-1,1,5,5-tetramethyl- $\alpha, \alpha, \alpha', \alpha'$ , 2,6-  
 hexaphenyl- (CA INDEX NAME)



RN 848155-71-5 CAPLUS

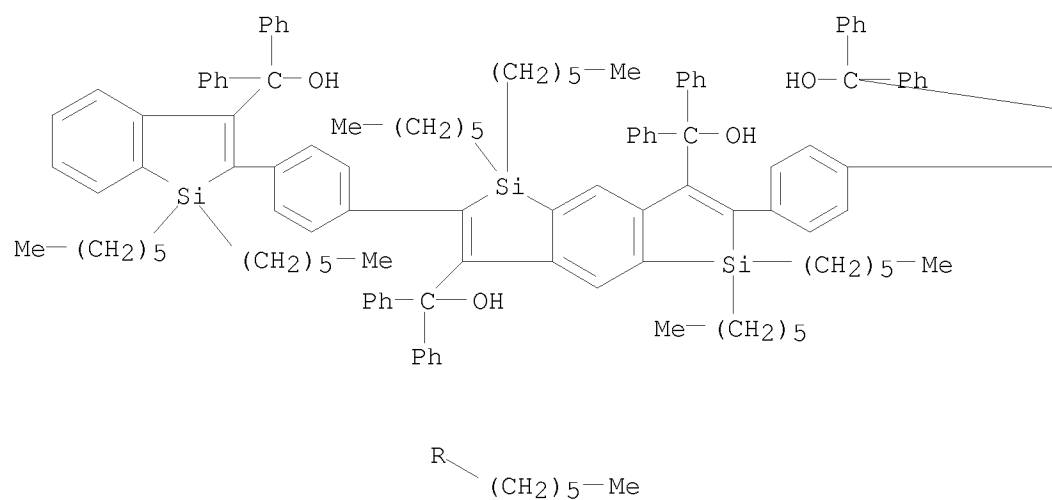
CN 9H-Fluoren-9-ol, 9,9'-(1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-1,5-disila-s-indacene-3,7-diyl)bis- (9CI) (CA INDEX NAME)



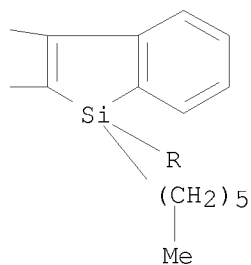
RN 848155-76-0 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol,  
2,6-bis[4-[1,1-dihexyl-3-(hydroxydiphenylmethyl)-1H-1-silainden-2-yl]phenyl]-1,1,5,5-tetrahexyl-1,5-dihydro-  
α,α,α',α'-tetraphenyl- (9CI) (CA INDEX NAME)

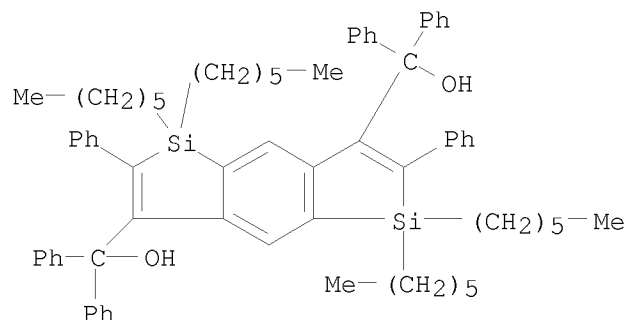
PAGE 1-A



PAGE 1-B



RN 852066-30-9 CAPLUS  
 CN 1,5-Disila-s-indacene-3,7-dimethanol,  
 1,1,5,5-tetrahexyl-1,5-dihydro- $\alpha,\alpha,\alpha',\alpha'$ ,2,6-  
 hexaphenyl- (9CI) (CA INDEX NAME)

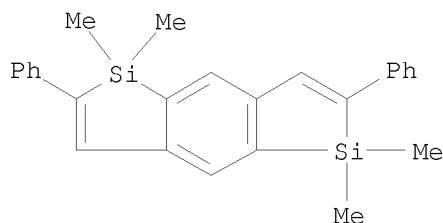


IT 794512-52-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of  $\pi$ -conjugated silicon-containing polycyclic fused ring compds.via intramol. reductive cyclization of  
1,4-bis(2-silylphenylethynyl)benzene or  
1,4-bis(phenylethynyl)-2,5-bis(silyl)benzene derivs.)

RN 794512-52-0 CAPLUS

CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl- (9CI)  
(CA INDEX NAME)OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
(3 CITINGS)REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:64272 CAPLUS

DOCUMENT NUMBER: 142:316892

TITLE: Ladder oligo(p-phenylenevinylene)s with silicon and  
carbon bridges

AUTHOR(S): Xu, Caihong; Wakamiya, Atsushi; Yamaguchi, Shigehiro

CORPORATE SOURCE: Department of Chemistry, Graduate School of Science,  
Nagoya University, Nagoya, 464-8602, JapanSOURCE: Journal of the American Chemical Society (2005),  
127(6), 1638-1639

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:316892

AB A general and versatile synthetic method for ladder

oligo(p-phenylenevinylene)s (LOPVs) and related  $\pi$ -electron systems, having annelated  $\pi$ -conjugated structures with Si and C bridges, was developed from the combination of two cyclization reactions, i.e. The intramol. reductive cyclization of (o-silylphenyl)acetylene derivs. and the Friedel-Crafts-type cyclization. This methodol. allows the authors to synthesize a homologous series of the ladder mols. up to a 13-ring-fused system. The crystal structural anal. of the longest 13-ring-fused LOPV proves its nearly flat  $\pi$ -conjugated framework with a length of .apprx.2.9 nm. All the produced ladder  $\pi$ -electron systems show intense fluorescence in the visible region with high quantum yields as well as relatively small Stokes shifts.

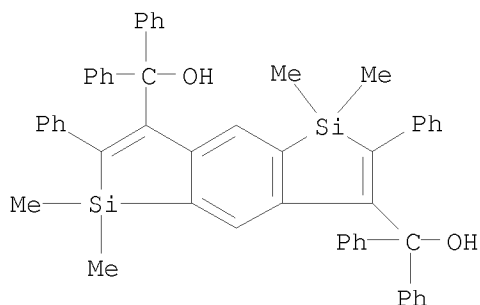
IT 848155-64-6P 848155-71-5P 848155-75-9P  
848155-76-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and Friedel-Crafts-type cyclization of bis[(hydroxymethyl)benzosilolyl]benzene in presence of boron trifluoride to give ladder oligo(p-phenylenevinylene)s with silicon and carbon bridges)

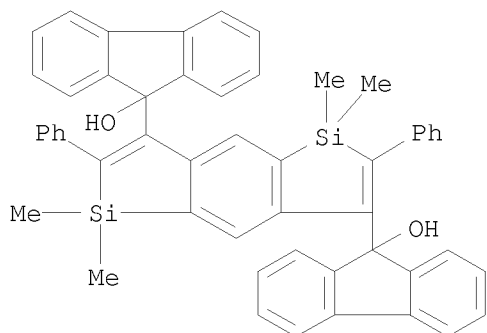
RN 848155-64-6 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol,  
1,5-dihydro-1,1,5,5-tetramethyl- $\alpha,\alpha,\alpha',\alpha'$ ,2,6-  
hexaphenyl- (CA INDEX NAME)



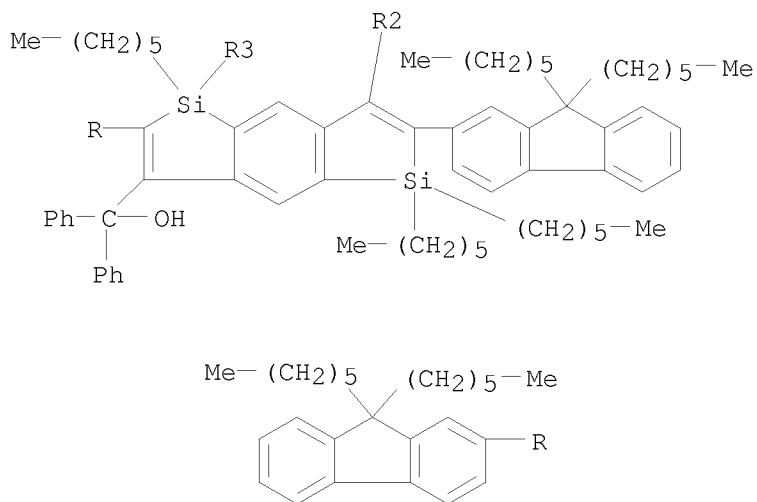
RN 848155-71-5 CAPLUS

CN 9H-Fluoren-9-ol, 9,9'-(1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-1,5-disila-s-indacene-3,7-diyl)bis- (9CI) (CA INDEX NAME)

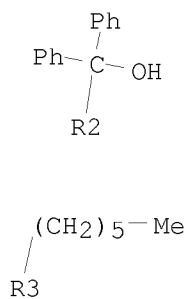


RN 848155-75-9 CAPLUS  
 CN 1,5-Disila-s-indacene-3,7-dimethanol,  
 2,6-bis(9,9-dihexyl-9H-fluoren-2-yl)-1,1,5,5-tetrahexyl-1,5-dihydro-  
 $\alpha,\alpha,\alpha',\alpha'$ -tetraphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A

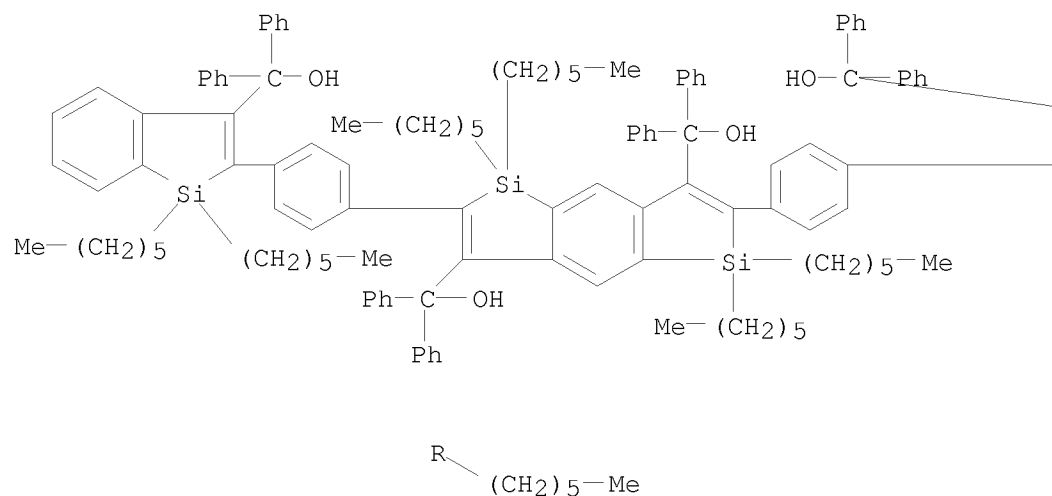


PAGE 2-A

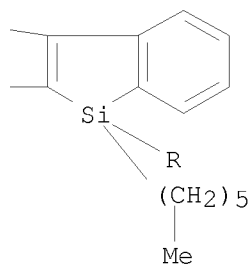


RN 848155-76-0 CAPLUS  
 CN 1,5-Disila-s-indacene-3,7-dimethanol,  
 2,6-bis[4-[1,1-dihexyl-3-(hydroxydiphenylmethyl)-1H-1-silainden-2-  
 yl]phenyl]-1,1,5,5-tetrahexyl-1,5-dihydro-  
 $\alpha,\alpha,\alpha',\alpha'$ -tetraphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



OS.CITING REF COUNT: 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS RECORD (45 CITINGS)

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:773153 CAPLUS

DOCUMENT NUMBER: 141:424228

TITLE: General Silaindene Synthesis Based on Intramolecular Reductive Cyclization toward New Fluorescent Silicon-Containing  $\pi$ -Electron Materials

AUTHOR(S): Xu, Caihong; Wakamiya, Atsushi; Yamaguchi, Shigehiro

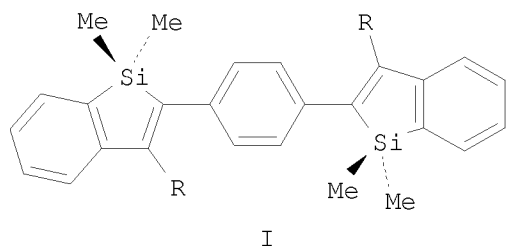
CORPORATE SOURCE: Department of Chemistry, Graduate School of Science, Nagoya University, Nagoya, 464-8602, USA

SOURCE: Organic Letters (2004), 6(21), 3707-3710

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 141:424228  
 GI

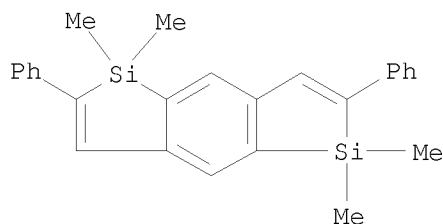


AB The reaction of (o-silylphenyl)acetylene derivs., e.g. 4-(2-Me<sub>2</sub>SiHC<sub>6</sub>H<sub>4</sub>C.tplbond.C)2C<sub>6</sub>H<sub>4</sub> with lithium naphthalenide undergoes intramol. reductive cyclization to produce various silaindene derivs., I (R = H, Me, SiMe<sub>2</sub>H, Bpin, Br, C<sub>6</sub>F<sub>5</sub>), after quenching with electrophiles. On the basis of this methodol., a series of silaindene-containing  $\pi$ -electron systems are synthesized that show intense blue to greenish-blue fluorescence. The crystal structure of I (R = H) was determined

IT 794512-52-0P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (crystal structure; preparation of fluorescent silicon-containing  $\pi$ -electron materials via intramol. reductive cyclization of (silylphenyl)acetylenes)

RN 794512-52-0 CAPLUS

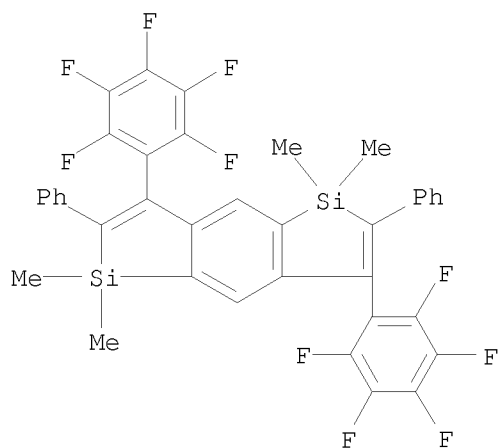
CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl- (9CI)  
 (CA INDEX NAME)



IT 794512-60-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of fluorescent silicon-containing  $\pi$ -electron materials via intramol. reductive cyclization of (silylphenyl)acetylenes)

RN 794512-60-0 CAPLUS

CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-3,7-bis(pentafluorophenyl)-2,6-diphenyl- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 26 THERE ARE 26 CAPLUS RECORDS THAT CITE THIS  
RECORD (26 CITINGS)  
REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	37.36	229.61
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-5.10	-5.10

STN INTERNATIONAL LOGOFF AT 08:48:19 ON 24 NOV 2010